

5 **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**List of Claims**

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (New) A method for creating a computer aided design drawing formed of a plurality of target objects, comprising the steps of:
  - (a) inputting first coordinate position data;
  - (b) displaying a first target object corresponding to the first coordinate position data;
  - (c) creating first dimension annotation data correlated to the first coordinate position data;
  - (d) displaying a first dimension annotation correlated to the first dimension annotation data; and
  - (e) cross-associating the first target object with the first dimension annotation, wherein as a result of such cross-association:
    - (i) a change in the first coordinate position data will effect a correlated change in the first dimension annotation data; and

- 5                   (ii)     a change in the first dimension annotation data will effect a  
correlated change in the first coordinate position data.
8.     (New) The method of claim 7 further comprising the steps of:
- 10           (f)     subsequent to step (e), inputting further coordinate position data  
corresponding to at least one further target object;
- (g)     displaying the further target object in accordance with the further  
coordinate position data;
- (h)     creating further dimension annotation data correlated to the further  
coordinate position data;
- 15           (i)     displaying a further dimension annotation correlated to the further  
dimension annotation data
- (j)     cross-associating the at least one further target object with the further  
dimension annotation, wherein as a result of such cross-association:
- 20               (i)     a change in the further coordinate position data will effect a  
correlated change in the further dimension annotation data; and
- (ii)     a change in the further dimension annotation data will effect a  
correlated change in the further coordinate position data;
9.     (New) The method of claim 8, further comprising the steps of:
- (k)     determining if the at least one further target object intersects the first  
target object
- 25           (l)     wherein if the at least one further target object intersects the first target  
object into a first segment and a second segment:
- (i)     calculating first segment coordinate position data;
- (ii)     calculating second segment coordinate position data;
- (iii)    creating first segment dimension annotation data correlated to  
30           the first segment coordinate position data;
- (iv)    displaying a first segment dimension annotation correlated to the  
first segment annotation data;
- (v)    creating second segment dimension annotation data correlated  
to the second segment coordinate position data;

- 5                    (vi)    displaying a second segment dimension annotation correlated to the second segment annotation data;
- (vii)   cross-associating the first segment with the first segment dimension annotation; and
- (viii)  cross-associating the second segment with the second segment dimension annotation.
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10.    (New) The method of claim 8, further comprising the steps of:
- (m)    determining if the at least one further target object is adjacent to any other target object.
11.    (New) The method of claim 10, further comprising the steps of:
- 15           (n)    inputting modifications to the further coordinate position data;
- (o)    displaying the further target object in accordance with the modified further coordinate position data;
- (p)    creating modified further dimension annotation data correlated to the modified further coordinate position data; and
- 20           (q)    displaying a modified further dimension annotation correlated to the further dimension annotation data.
12.    (New) The method of claim 11, further comprising the steps of:
- (r)    if the at least one further target object is adjacent to the first target object:
- 25           (i)    modifying the first coordinate position data in correlation to the modified further coordinate position data;
- (ii)   displaying the first target object in accordance with the modified first coordinate position data;
- (iii)  modifying the first dimension annotation data correlated to the modified first coordinate position data;
- 30           (iv)   displaying a first dimension annotation correlated to the modified first dimension annotation data
13.    (New) A method for creating a computer aided design drawing formed of a plurality of target objects, comprising the steps of:

- 5           (a)     inputting coordinate position data for a new target object;  
          (b)     displaying the new target object corresponding to the coordinate  
                  position data;  
          (c)     creating dimension annotation data correlated to the coordinate  
                  position data;
- 10          (d)     displaying a dimension annotation correlated to the dimension  
                  annotation data;  
          (e)     cross-associating the new target object with the dimension annotation,  
                  wherein in said cross-association:
- 15           (i)     a change in the coordinate position data will effect a correlated  
                  change in the dimension annotation data; and  
          (ii)    a change in the dimension annotation data will effect a  
                  correlated change in the coordinate position data;
- (f)     repeating steps (a) through (e) for at least one additional target object;  
          (g)     wherein all of steps (a) through (e) are completed for one target object  
20           prior to inputting coordinate position data for any additional target  
                  object.
14.       (New) The method of claim 13, wherein step (a) further comprises the steps  
of:
- 25           (h)     determining whether the new target object intersects any other target  
                  object; and  
          (i)     wherein if the new target object intersects at least one other target  
                  object so as to create a first segment and a second segment:
- 30           (i)     calculating first segment coordinate position data,  
          (ii)    calculating second segment coordinate position data,  
          (iii)   creating first segment dimension annotation data correlated to  
                  the first segment coordinate position data,  
          (iv)   displaying a first segment dimension annotation correlated to the  
                  first segment annotation data,  
          (v)   creating second segment dimension annotation data correlated  
35           to the second segment coordinate position data,

- 5                   (vi)     displaying a second segment dimension annotation correlated to  
                    the second segment annotation data,
- (vii)    cross-associating the first segment with the first segment  
                                dimension annotation, and
- (viii)   cross-associating the second segment with the second segment  
10                   dimension annotation.
15.     (New) The method of claim 13, further comprising the step of:
- (j)     determining if the new target object is adjacent to any other target  
                    object.
16.     (New) The method of claim 15, further comprising the steps of:
- 15           (k)     selecting a target object;
- (l)     inputting modified coordinate position data for the selected target  
                    object;
- (m)    displaying the selected target object in accordance with the modified  
                    coordinate position data;
- 20           (n)    modifying the dimension annotation data corresponding to the selected  
                    target object, the modification correlated to the modified coordinate  
                    position data; and
- (o)    displaying a modified dimension annotation correlated to the modified  
                    dimension annotation data.
- 25     17.     (New) The method of claim 16, further comprising the steps of:
- (p)     if the selected target object is adjacent to at least one other adjacent  
                    target object:
- (i)     adjusting the coordinate position data corresponding to the  
                                adjacent target object, wherein the adjustment is correlated to  
30                          the modified coordinate position data;
- (ii)    displaying the adjacent target object in accordance with the  
                                adjusted coordinate position data;

- 5                    (iii)    adjusting the dimension annotation data corresponding to the adjacent target object, wherein the adjustment is correlated to the adjusted coordinate position data; and
- (iv)    displaying a dimension annotation correlated to the adjusted dimension annotation data.
- 10    18.    (New) The method of claim 13, wherein step (a) further comprises the steps of:
- (q)    determining whether the new target object superposes any other underlying target object; and
- (r)    wherein if the new target object superposes an underlying target object:
- 15                    (i)    creating at least one on-center dimension annotation data correlated to both the coordinate position data of the new target object and the coordinate position data of the underlying target object,
- (ii)    displaying an on-center dimension annotation correlated to the on-center annotation data,
- 20                    (iii)    cross-associating the new target object with the on-center dimension annotation, and
- (iv)    cross-associating the underlying target object with the on-center dimension annotation.
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